

2 General Procedures and Guidelines

2.1 *Site Description*

The facilities include Hotel Pier, Kilo and Mike docks, the Red Hill Tank Storage Area, the Upper Tank Farm Storage Area, the Fuel Oil Reclaimed Facility (FORFAC), and the truck loading/offloading facilities.

2.2 *Plan of Facility*

(An overview map of FLC fuel facilities in Pearl Harbor is located in Section 14.)

2.3 *Size*

The physical layout of FLC PH covers 300 acres of land spread out over Naval Station Pearl Harbor. The major structures of the Fuel Department are located on the northeast side of the base with several miles of pipelines connecting the storage locations with the piers.

2.4 *Terrain*

The terrain at FLC PH is relatively flat with some gently rolling hills. Pearl Harbor contains almost 50 km of shoreline backed by extensive wetlands through which highly sedimented waters enter the harbor. The coastal plains to the west and east of Pearl Harbor, Ewa and Honolulu, lie atop a broad prehistoric coral reef platform. The land areas surrounding Pearl Harbor and Honolulu Harbor are generally low in elevation, slowly rising to 250 ft (76 m) approximately 1.3 nautical miles inland from the harbor. Once 250 ft (76 m) is reached, the terrain slopes rapidly upward east of Pearl Harbor on the west side of the Koolau Range and west of Pearl Harbor on the east side of the Waianae Range. North of Pearl Harbor, the slope is more gradual through the valley separating the two mountain ranges. The valley elevation does not exceed 1,000 ft (305 m) at any point.

2.5 *Major Structures*

The Pearl Harbor bulk fuel facility consists of the following major structures:

- Red Hill Bulk Storage Complex
- Upper tank Farm Storage Area
- Underground Pump House
- Fuel Oil Reclamation Facility (FORFAC)
- “Hotel” Fuel Pier
- Kuahua Truck Load/Unload Rack
- Building 1757

2.5.1 **Red Hill Bulk Storage Complex**

The Red Hill Storage Area is located approximately three miles from Joint Base Pearl Harbor- Hickam, in the ridge between south Halawa Valley and Moanalua Valley. The bottoms of the tanks are situated about 100 feet above sea level and about 80 feet above the basal water table. The geology of the site is primarily basaltic lava flows. The Red Hill Storage Area is used to store the majority of fuel at FLC PH and consists of twenty large 302,000 bbl and 4 large 285,500 bbl underground storage tanks (UST) containing JP-5, JP-8, and F-76.

Of special note, Red Hill is one of the world’s largest underground storage areas. This unique facility was completed in 1943 to provide strategic location and secure storage for Pearl Harbor’s fuel.